

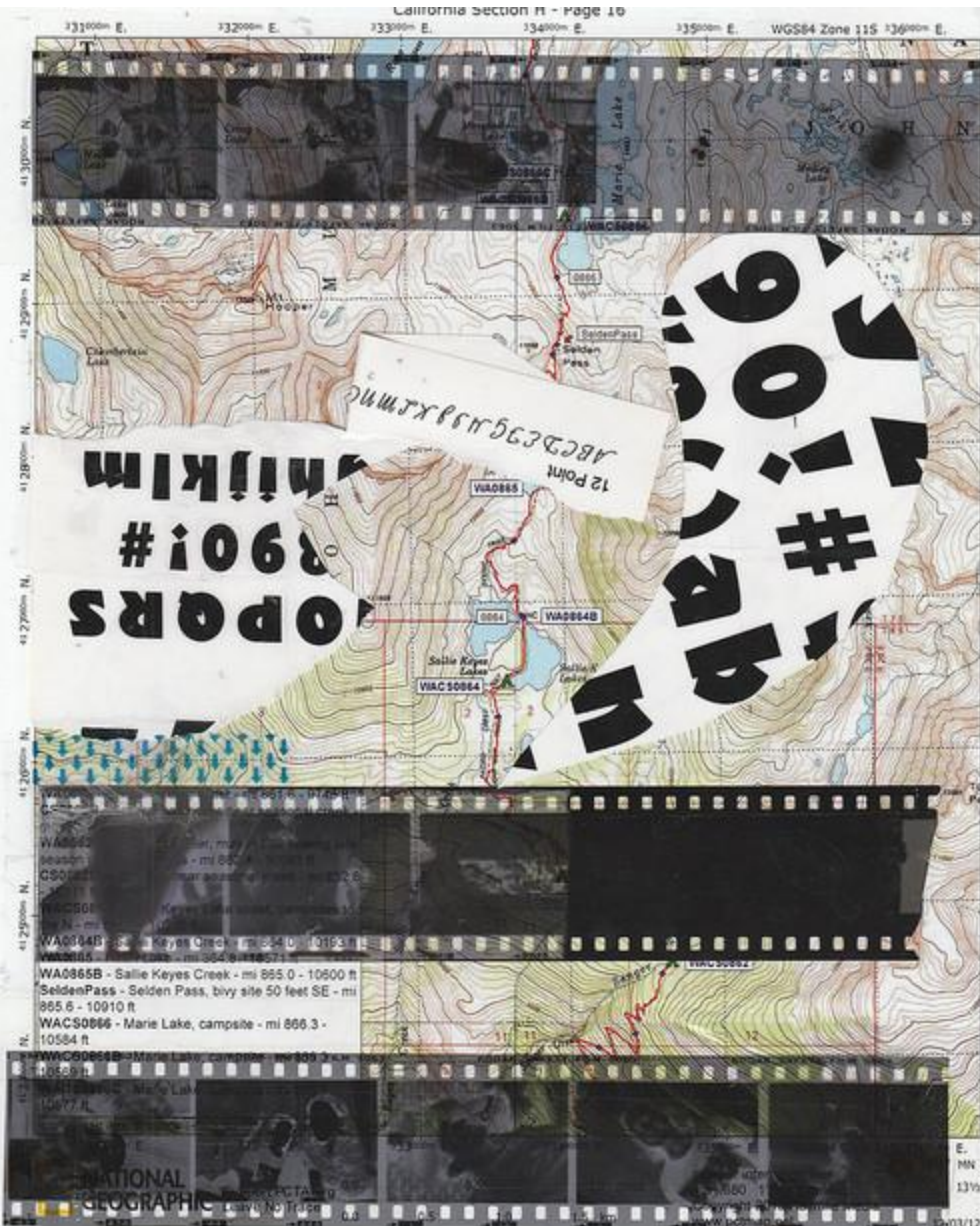
Six Months Aint No Sentence
2016
Jim Leftwich

Book 187

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08.20.2016





JUL 24 2016

Jim leftwich
525 10th st sw
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JUL 25 2016

RDS
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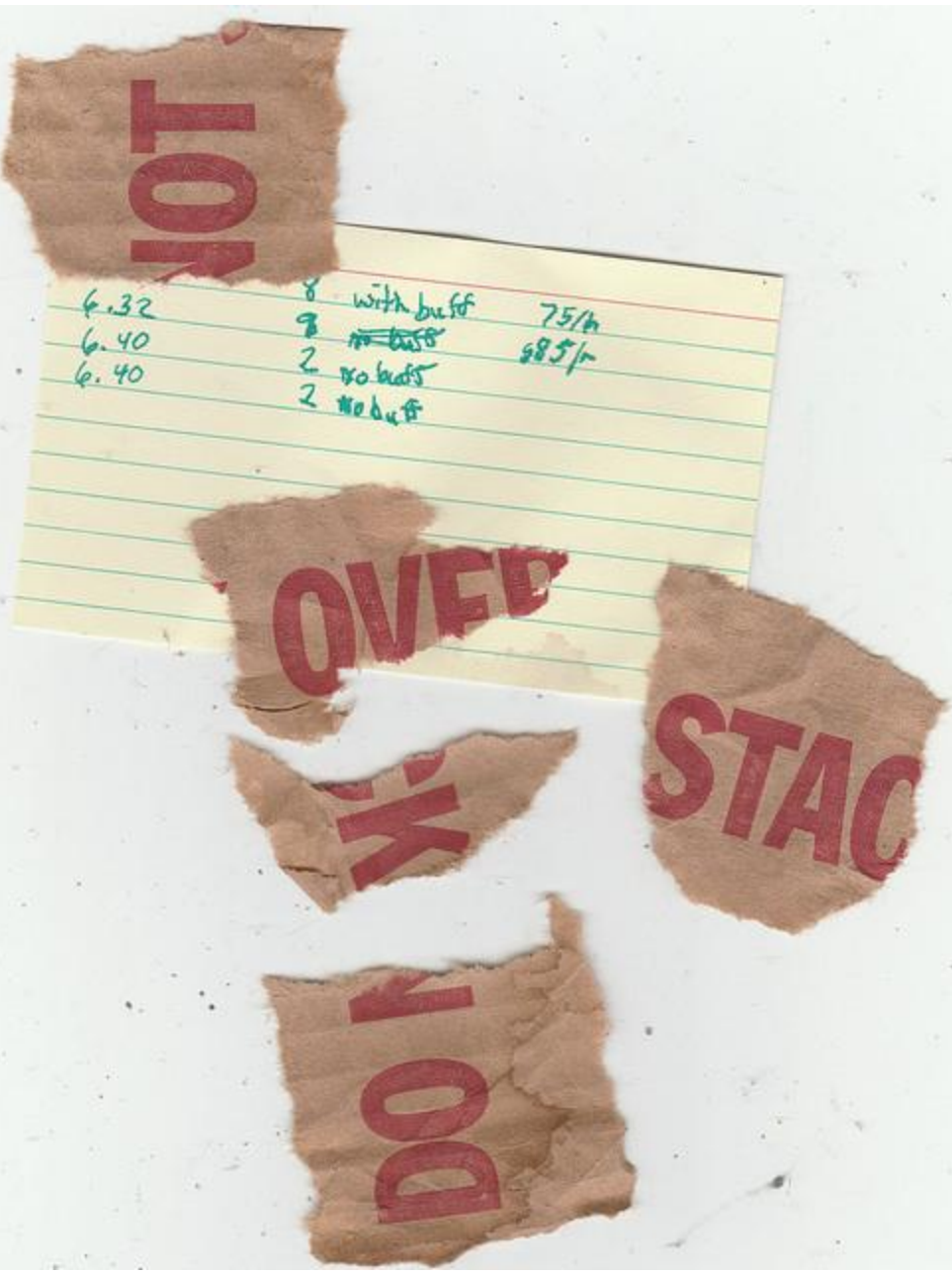


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gyrostatics

guttation \ga-'tā-shən\ n.

BOTANY. The loss of water by uninjured plants, as contrasted with transpiration. In some plants is frequently mis-

THE COMPANION



gynecology \jī-nē-'kō-lō-jē\ n.

MEDICINE. The branch of medicine dealing with diseases unique to women, particularly those of the reproductive and excretory systems.

GYNECOLOGY is a specialty that

gypsum \jīp-səm\ n.

EARTH SCIENCE. $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$. A mineral that occurs naturally as layered crystals in some rocks; hydrous calcium sulfate.

GYPSUM is used in the manu-

gyrocompass \jī-rō-'kōm-pas\ n.

AERONAUTICS and ASTRONAUTICS. A compass that uses an electrically-driven gyroscope as a component.

A GYROCOMPASS is standard equipment on modern airliners.

gyroscope \jī-rō-'skōp\ n.

ENGINEERING. A device consisting of a disk fixed to a rotating axle. The disk's properties increase the tendency of the axle to remain in a fixed position regardless of changes in position. The axle tends to change direction at a right angle to the direction of a force applied to the axle at the point of application.

A gyrocompass, is useful in navigation because it tends to remain in a fixed position when the vessel is moving. It will keep it pointed toward true north.

gyrostatics

PHYSICS. Concerned with the properties of rotating bodies. The gyrostatics explains how a moving bicycle is kept upright by the rider.

AUG 11 2016



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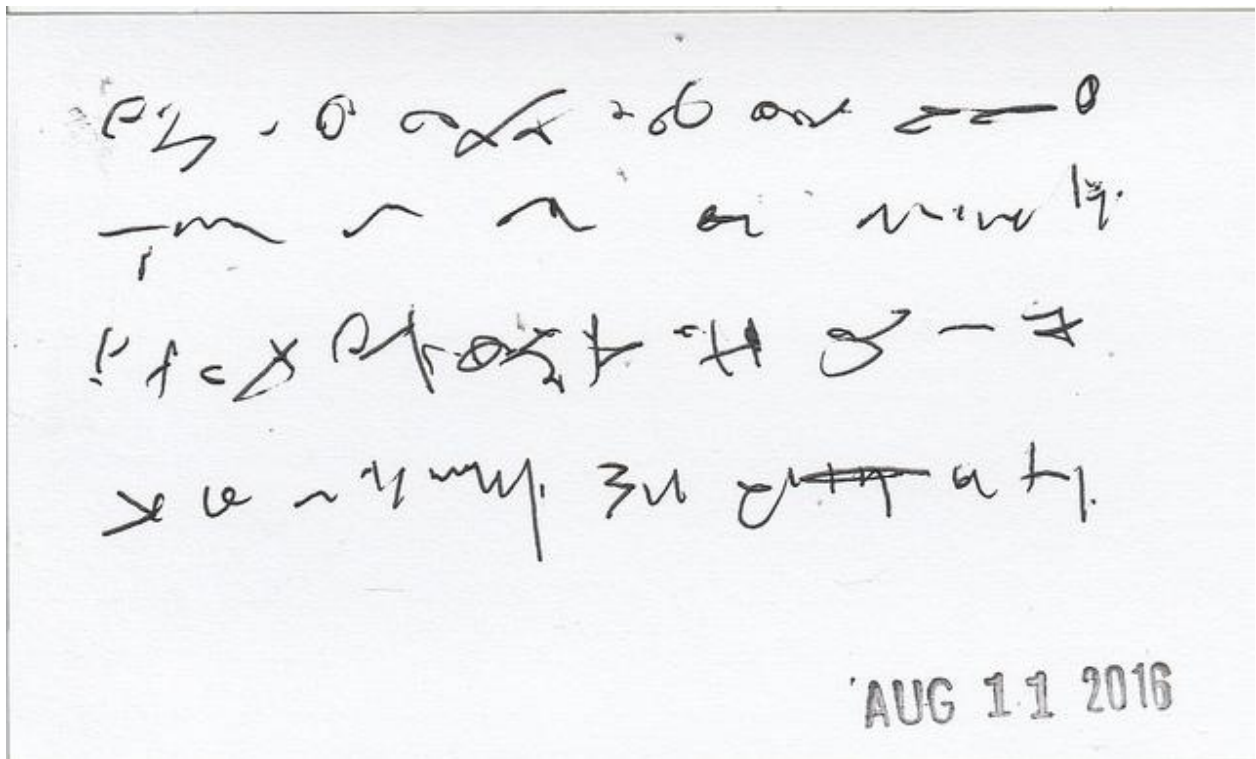


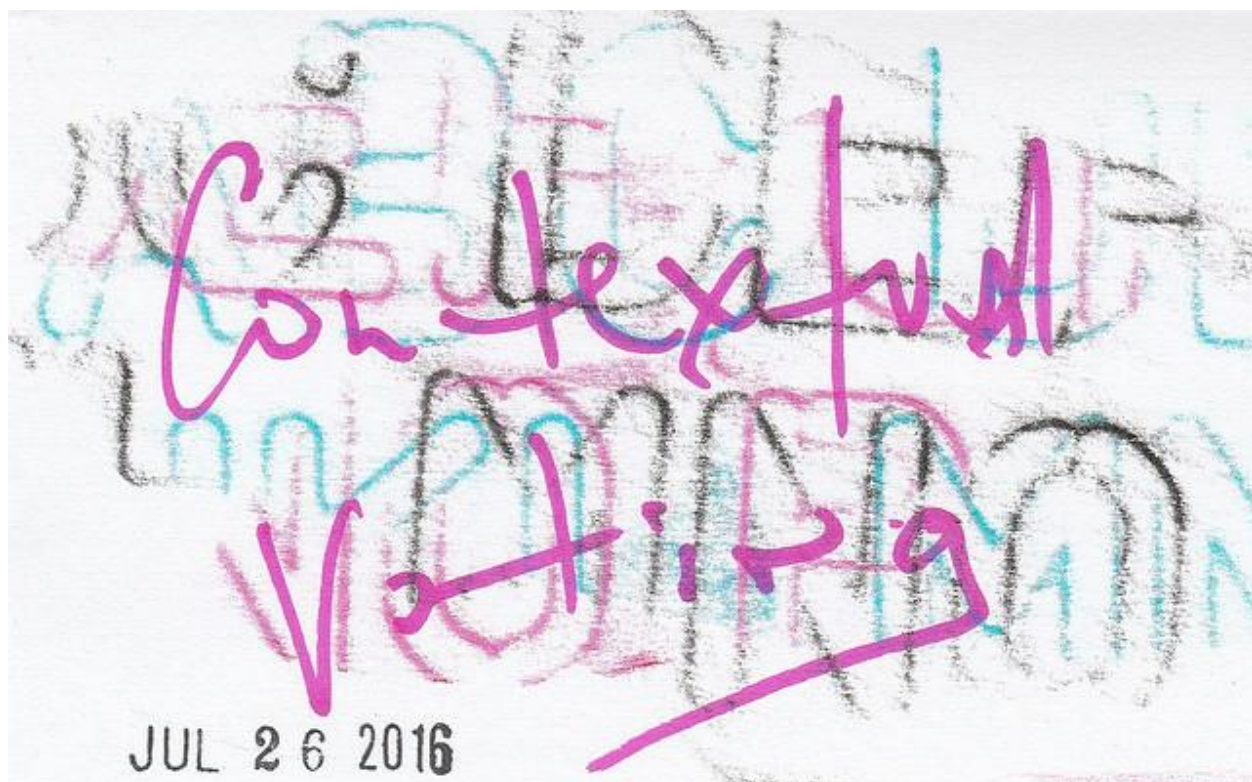


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08.21.2016

Jim Leftwich

August 6 at 11:23am

Jim Leftwich.
Useless Writing
(2001)

Skills are acquired behaviors, similar to acquired tastes. They are learned behaviors valued by the dominant culture to the extent that it can use them. Different areas of the dominant culture value different skills. Skill is developed originally, jump-started if you will, through training, then honed, refined, through experience, through practice, the practice of the particular skill. One sets out to learn a skill, seeks out an expert in the field, and is trained by rote and through information until one has acquired the desired skill. It is the same whether one wishes to repair an automobile engine or write a sonnet, program a computer or paint a portrait. There is a hierarchy at work here, and those who reside at the highest levels do so due to their possession of a specialized knowledge and their mastery of its requisite activities: the arcanum and its secret gestures: the gnosis and its rites. Almost all of us can learn almost any skill if we desire to do so. All that is required is the desire and the work, the desire and the willingness to put in the time and put forth the effort to acquire the skill. All the skills that are taught, and the ways in which they are taught, are structurally necessary to the culture that teaches them, else they would not be taught. We should think of this usefulness as meaning only one thing: useful means useful to the dominant culture, always and only. That which is deemed useful is such only insofar as it reinforces the fundamental structure of the culture. The power relations that are structurally in place must remain structurally in place. Change is not only allowed, it is required, but only in the details of the larger pattern; the larger pattern of necessity must remain intact.

What happens if one desires to practice useless skills, skills that are not useful in maintaining the structure of the culture? First of all, one will not be able to acquire these skills in the usual manner. There will be no teachers provided by the culture; no training will be available. One's desire will of necessity need be nearly an obsession. The work, the time and effort required,

may seem disproportionate to the desire. One will likely decide to pursue some other skill, to alter one's desire, to attune one's desire to those regarded as useful by the culture.

What happens if one persists in the pursuit of useless skills? It is unlikely that an entirely unforeseen activity will be invented, so one will work in the shadows of an already established tradition. But, at least at the outset, one will work alone, without guides or guidelines. The wheel will likely be reinvented accidentally and often. (Reinventing the wheel is useful in the pursuit of useless skills.) But the wheel is not a part of the desire, so it will be discarded — discarded not as useless, but as useful, therefore inappropriate to the pursuit. One trains by sorting and wandering, sifting, brooding, drifting, gathering and discarding, always discarding. This is a nomadic pursuit, not necessarily directionless or circuitous, but always everything but the steady step along a straight and narrow path. This is the crooked path, and its passage is along the low road.

This autodidact will learn to do things that others have no desire to do, that others are not allowed to do, that others are not able to think of doing. This is obvious from the outside looking in, but only acknowledged by the dominant culture in moods of elitist condescension. The normative reaction of the dominant culture will be derision or a haughty indifference. Structural superiority, however, permits itself the privilege of praising from a position of ignorance. This is a method that attempts to appropriate the useless. A cursory glance at recent cultural history in America alone reveals several instances of this. There is only one way around this: if one is truly committed to the practice of useless skills, one must be constantly on guard against one's own tendencies towards usefulness.

Two useless skills:

1. private writing, by which I mean writing that has a strictly subjective significance for the writer. this writing may be appropriated by the dominant culture, i.e. published, sold, archived, studied, etc., but it cannot be known for what it is. a writer's disciplined practice of private writing can only be known as such by that writer. other knowledge concerning it will never be other than ancillary.

2. asemic writing, by which I mean writing that is shifted intentionally towards the unreadable, towards image, without discarding entirely all vestiges of either the letter or the line, and without assuming the alternative status of visual art. it is a hybrid writing, a writing not meant for a reading mingled with an imaging not meant for looking. it is a useless, mutant writing, its uselessness a mutagen for the writer.

3.12.01

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19Slobodan Škerović, Chris Bidle and 17 others

10 Comments

2 shares

Comments

Nico Vassilakis #1 & #2

Unlike · Reply · 5 · August 6 at 11:53am

Bill Beamer well said

Like · Reply · 2 · August 6 at 1:20pm

Paul Lambert really helpful Jim thumbs way up

Like · Reply · 2 · August 6 at 2:07pm

John M. Bennett Long live the useless skills, it is life-affirming to practice them, tho it can get lonely -

Unlike · Reply · 4 · August 6 at 2:33pm

Yakov Leib HaKohain-kalidas a poem, for example, should have no #utility, no "purpose" or "meaning." Every poem I write is intended as an assault on such purpose and meaning as the prevailing culture seems to value. To read it otherwise reflects the reader's #need and certainly n...See More

Like · Reply · 1 · Yesterday at 2:09pm · Edited

Don Socha The prevailing culture likes to consume products quickly and completely. How might useless writing complicate that?

Like · Reply · Yesterday at 11:35am

Yakov Leib HaKohain-kalidas not at all. to do so would make it purposeful, and it should have no purpose other than itself. a poem should not be a tool "for" anything else (no matter how noble it may seem) except its own existence.

Like · Reply · Yesterday at 11:43am · Edited

Don Socha Makes it easier for you, I guess. Easy for any potential readers too. Ouroboros writing. More true to life, I suppose. Still, my reading of Leftwich suggests that such complacency, while apparently 'useless' isn't really because it risks promoting or "maintaining the [useful] structure of the culture" in a useful way.

Like · Reply · 1 · Yesterday at 12:00pm · Edited

Yakov Leib HaKohain-kalidas Don Socha right.

Like · Reply · Yesterday at 1:48pm

Yakov Leib HaKohain-kalidas Don Socha the ouroboros, yes. "Easier" or "harder," i can't say. since i am neither the writer of the poem nor its reader.

Like · Reply · 1 · Yesterday at 2:29pm · Edited

Write a reply...

Don Socha I'd recommend cutting the generalizations "almost all of us can learn almost any skill if we desire to do so. All that is required is the desire and the work, the desire and the willingness to put in the time and put forth the effort...". You cover this in a more egalitarian fashion earlier and I wonder if we want to downplay what may well be unforeseen difficulties in being useful.

The DSM-IV is the manual used by psychiatrists to diagnose mental illnesses and, with each new edition, there are scores of new mental illnesses. Are we becoming sicker? Is it getting harder to be mentally healthy? Authors of the DSM-IV say that it's because they're better able to

identify these illnesses today. Critics charge that it's because they have too much time on their hands.

New mental illnesses identified by the DSM-IV include arrogance, narcissism, above-average creativity, cynicism, and antisocial behavior. In the past, these were called "personality traits," but now they're diseases.

And there are treatments available.

All of this is a symptom of our over-diagnosing and overmedicating culture. In the last 50 years, the DSM-IV has gone from 130 to 357 mental illnesses. A majority of these illnesses afflict children. Although the manual is an important diagnostic tool for the psychiatric industry, it has also been responsible for social changes. The rise in ADD, bipolar disorder, and depression in children has been largely because of the manual's identifying certain behaviors as symptoms. A Washington Post article observed that, if Mozart were born today, he would be diagnosed with ADD and "medicated into barren normality."

According to the DSM-IV, the diagnosis guidelines for identifying oppositional defiant disorder are for children, but adults can just as easily suffer from the disease. This should give any freethinking American reason for worry.

The Soviet Union used new "mental illnesses" for political repression. People who didn't accept the beliefs of the Communist Party developed a new type of schizophrenia. They suffered from the delusion of believing communism was wrong. They were isolated, forcefully medicated, and put through repressive "therapy" to bring them back to sanity.

When the last edition of the DSM-IV was published, identifying the symptoms of various mental illnesses in children, there was a jump in the diagnosis and medication of children. Some states have laws that allow protective agencies to forcibly medicate, and even make it a punishable crime to withhold medication. This paints a chilling picture for those of us who are nonconformists.

Although the authors of the manual claim no ulterior motives but simply better diagnostic practices, the labeling of freethinking and nonconformity as mental illnesses has a lot of potential for abuse. It can easily become a weapon in the arsenal of a repressive state.

I'm DOOMED!

LikeShow more reactions

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7John M. Bennett, Olchar E. Lindsann and 5 others

Comments

Michael Dec Fuck you and the big Pharma truck you rode in on!

Like · Reply · 1 · Yesterday at 7:32am

David Thomas Roberts Militant in the name of my selfhood forever.

Like · Reply · 1 · Yesterday at 7:34am

Michael Dec I was already mentally ill for real. This doesn't really surprise me, but it'll be plenty power in the hands of the do-rights.

Like · Reply · Yesterday at 7:47am · Edited

Stephen J Dueweke Eradicating the DSM, and the Big Pharma truck the DSM rode in on, remains painfully easy; "simple, simple's-self", to quote my over-created Quince: acknowledge that "the self" does not exist; or exists only as an unreal, as opposed to an unreal, construction. Once we throw over the tyranny of the self we can return to personhood, personality with all personality's flaws and curiosities; once again, our humanity is saved.

Like · Reply · 1 · Yesterday at 8:02am

Olchar E. Lindsann As soon as one version of this is discredited they re-brand it; in the 1890s it was hysteria, etc.....

Like · Reply · 1 · Yesterday at 9:02am

Rachael Clark Frightening, indeed. I am more ill than I realized.

Like · Reply · 1 · Yesterday at 9:30am

John Olson this is from The Onion, right?

Like · Reply · Yesterday at 12:13pm

Michael Dec Uh, not sure. Had to copy & paste: there was no "share".

Like · Reply · Yesterday at 1:36pm

Michael Dec John, it's from the unbounded spirit.

Like · Reply · Yesterday at 2:20pm

Write a reply...

Eric BigLu Stokes They are using the DSM V now

Like · Reply · Yesterday at 1:49pm

Michael Dec I'll ask my shrink what he thinks, if I can understand his "english".

Like · Reply · 1 · Yesterday at 1:51pm

Jim Leftwich from Wikipedia

History.

Oppositional defiant disorder was first defined in the DSM-III (1980). Since the introduction of ODD as an independent disorder, the field trials to inform the definition of this disorder have included predominantly male subjects. Some clinicians have debated whether the diagnostic criteria presented above would be clinically relevant for use with females. Furthermore, some have questioned whether gender-specific criteria and thresholds should be included.

Additionally, some clinicians have questioned the preclusion of ODD when CD is present.[3]

According to Dickstein, the DSM-5 attempts to:

"redefine ODD by emphasizing a 'persistent pattern of angry and irritable mood along with vindictive behavior,' rather than DSM-IV's focus exclusively on 'negativistic, hostile, and defiant

behavior.' Although DSM-IV implied, but did not mention, irritability, DSM-5 now includes three symptom clusters, one of which is 'angry/irritable mood'—defined as 'loses temper, is touchy/easily annoyed by others, and is angry/resentful.' This suggests that the process of clinically relevant research driving nosology, and vice versa, has ensured that the future will bring greater understanding of ODD".[9]

Like · Reply · 1 · Yesterday at 2:10pm

Michael Dec That really pisses me off...

Like · Reply · Yesterday at 2:21pm

Jim Leftwich this bullshit has been with us since 1980 -- i mean as part of the Diagnostic and Statistical Manual, with the same wording (oppositional defiant disorder). the timing makes me think it was originally in response to the punk version of the 70s counterculture. i remember Time magazine calling the first Clash album dangerous -- some of the best unintended praise any punk record ever received.

Like · Reply · 1 · Yesterday at 2:28pm

Michael Dec There's been too much built to defeat a harmless "counterculture" I'll always be part of. my hair's white.

Unlike · Reply · 1 · Yesterday at 2:30pm

Michael Dec These people are obviously deranged. I just sent one a friend request.

<http://youtu.be/6A3cHzFQsql>

The Fall - Kurious Oranj

The Fall - Kurious Oranj (from "I am Kurious Oranj" 1988) Pained and...

YOUTUBE.COM

Like · Reply · Yesterday at 2:32pm

Jim Leftwich the counterculture is always a temporary autonomous zone. we inhabit it as we can, over the course of many decades.

Like · Reply · 2 · Yesterday at 2:42pm

Michael Dec Exactly. That's why it's unclassifiable. Not mentally ill.

Like · Reply · Yesterday at 2:51pm

Jim Leftwich it has always been about power and control...

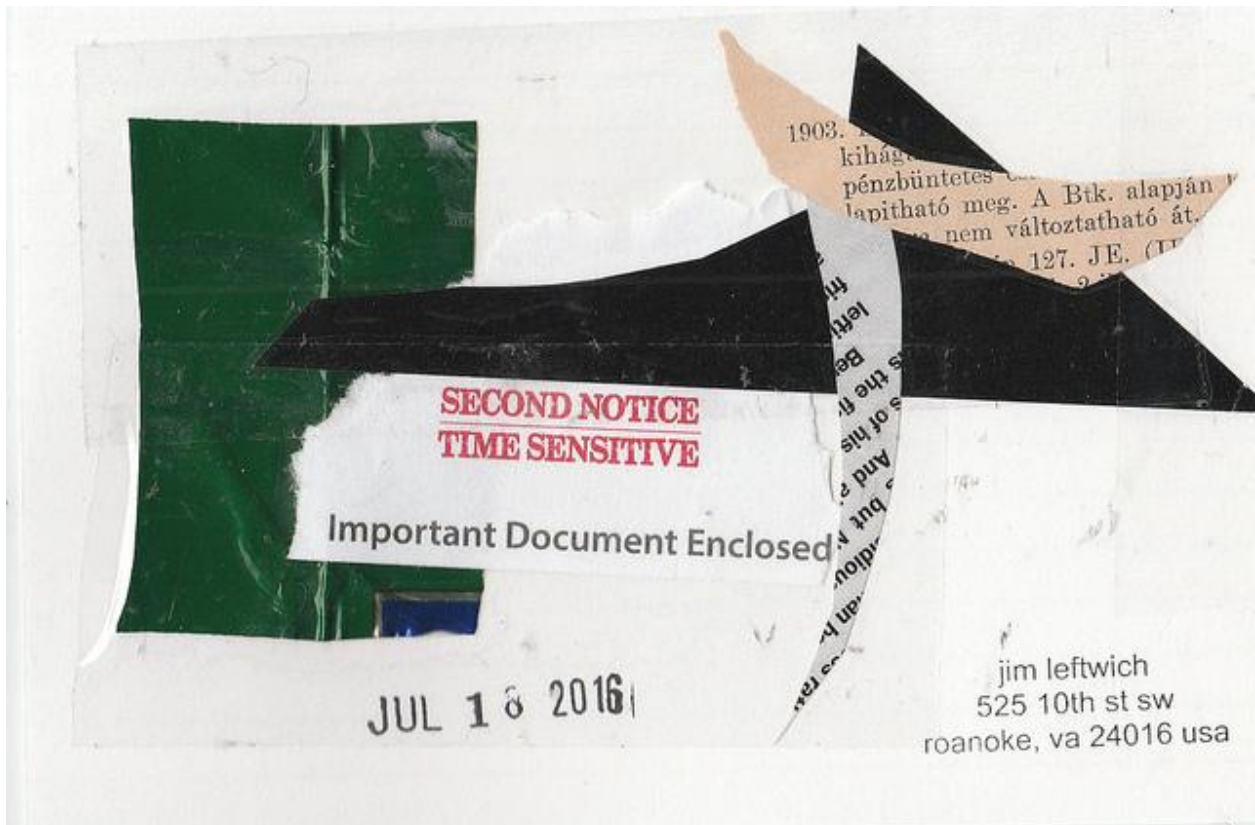
Like · Reply · 1 · Yesterday at 2:55pm

Spencer Selby The world of "One Flew Over the Cuckoo's Nest" never went away.

Like · Reply · 1 · Yesterday at 4:11pm

Michael Dec Neither did the Indian who broke out stop fighting.

Like · Reply · Yesterday at 7:03pm





chine such as a cyclotron, betatron, or synchrotron are subject to an inward acceleration and therefore radiate. Although the radiation is of some interest as a source to the spectroscopist, its chief importance is that it limits the energy to which electrons can be accelerated in a cyclic machine. Eventually, a point is reached at which the radiation loss just balances the energy input.

Electrons moving with a uniform velocity v (i.e., in a straight line without acceleration) in vacuum do not radiate because v is always less than the velocity of light. If, however, energetic electrons pass through a medium of refractive index n in which the velocity of light c/n would be less than v , they produce Cherenkov radiation (named after Pavel Alekseyevich Cherenkov, a Soviet physicist) at an angle θ to the electron trajectory, given by $\cos \theta = c/nv$. The fraction of the electron energy radiated is small and is confined to wavelengths in which the refractive index n exceeds c/v . Cherenkov radiation is used in high-energy particle physics to record the passage of fast-charged particles.

Electrons of more than about one kilovolt energy impinging from vacuum on almost any dielectric will excite target atoms and cause some radiation. Usually, the radiation is reabsorbed in the target medium and little escapes, but if a dielectric with the correct energy level structure is used, reabsorption can be eliminated and appreciable efficiency of energy conversion to light, of the order of several percent, can be achieved. Furthermore, the energy level structure of the medium determines the spectral distribution or colour of the light. This is the principle used in the screen phosphors of the cathode-ray tube and the television picture tube. It is also used in nuclear physics to detect charged particles, especially electrons. Electrons impinging on some dielectrics, notably potassium chloride (KCl), can also produce light-absorbing centres and render a screen opaque.

Conduction electrons moving in a solid under the influence of an electric field usually lose kinetic energy in low-energy collisions as fast as they acquire it from the field. Under certain circumstances in semiconductors, however, they can acquire enough energy between collisions to excite atoms in the next collision and cause radiation. A

Cherenkov
radiation

Jim Leftwich
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Roanoke, va 24016

to one or more of the ions present in different concentrations on its two sides, the diffusion of these ions down the concentration gradient will lead to charge separation and establish a potential difference across the membrane. In equilibrium, the ionic flows caused by the potential and by the concentration gradients just balance.

If for one type of ion of charge q the two concentrations are n_1 and n_2 , the potentials on the two sides of the membrane satisfy

$$\frac{n_1}{n_2} = \exp\left(-\frac{q[\phi_1 - \phi_2]}{kT}\right), \quad (79)$$

in which k is Boltzmann's constant and T is the temperature. This can be expressed as

$$\phi_1 - \phi_2 = -\frac{kT}{q} \log_e \frac{n_1}{n_2},$$

or, changing from \log_e to \log_{10} , inserting numerical values for k and T , and setting $q = e$ (the electronic charge), (79) can be expressed as

$$\phi_1 - \phi_2 = -57 \times 10^{-3} \log_{10} \frac{n_1}{n_2} \text{ volts.}$$

The concentration ratios that occur in biological material are usually in the range one to 100 and so the general order of magnitude of these potential differences is less than 100 millivolts.

Usually, the concentrations will finally equalize themselves unless either external influences (e.g., pressure differentials) act on the system or external sources of ions maintain the two concentrations at different values. It is possible, however, even in passive inorganic systems, for potentials of this kind to develop, as will now be seen.

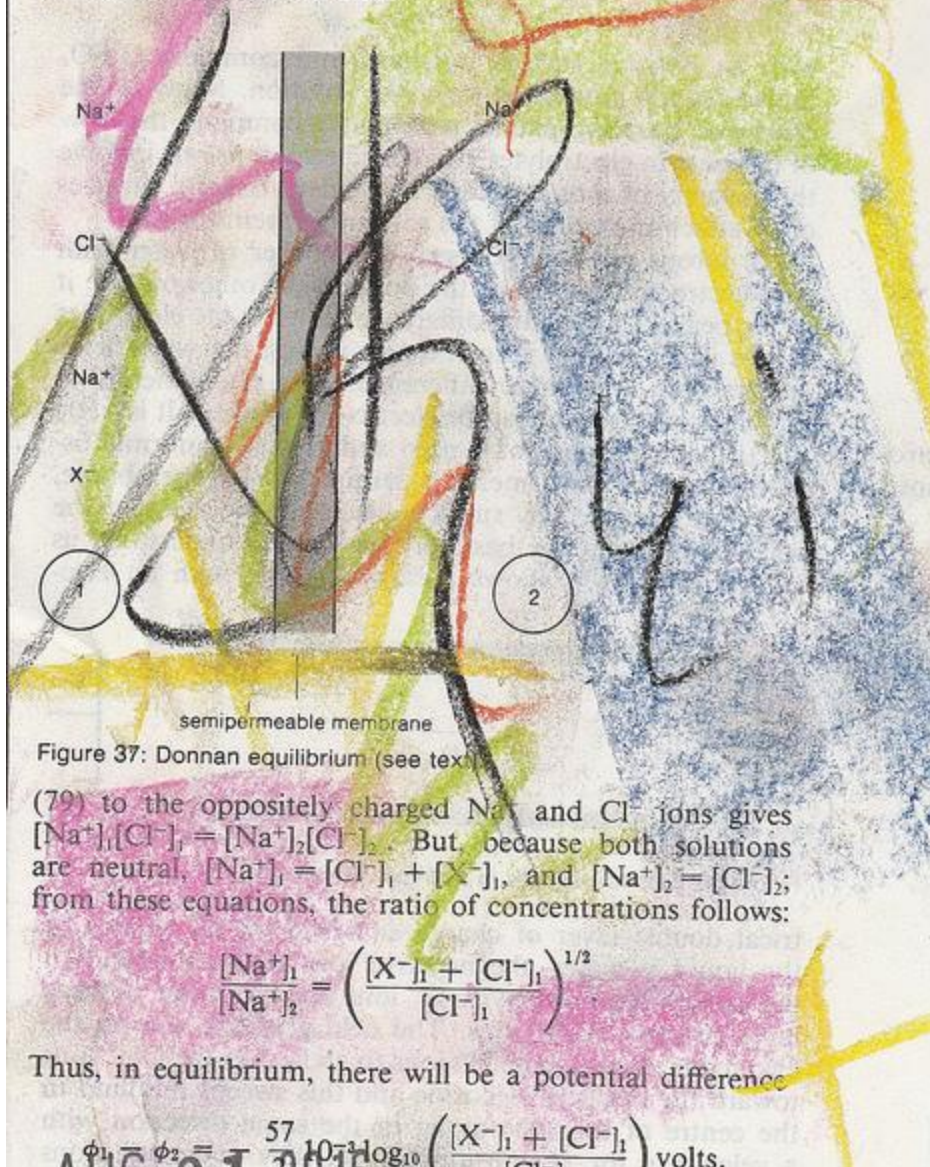
In this example (see Figure 2) a membrane, permeable to sodium (Na^+) ions, chloride (Cl^-) ions, and water molecules, separates a solution of sodium chloride (NaCl) from a mixed solution of NaCl and NaX , in which X is some large organic ion to which the membrane is impermeable. If $[\text{Na}^+]_1$ represents the ionic concentration in region (1) then, the application of equation

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function. An oscillating electric dipole is equivalent to a current I flowing in a short straight length of wire specified by the vector l , in which $I = dp/dt = j\omega p$.

This formula can be used to calculate the power radiated when a short length l of wire is excited at its centre with a current I , which charges the stray capacitance between the ends of the wire. The result for the power radiated into a solid angle ($d\Omega$) in a direction making an angle θ with the axis of the wire is

$$dP = \frac{\omega^2 \mu_0 I^2}{32\pi^2} \sin^2 \theta d\Omega$$

and the total power radiated into all angles is

$$P = \frac{1}{2} I^2 \left[\frac{\mu_0}{6\pi} \left(\frac{\omega l}{c} \right)^2 \right]$$

The radiation resistance is therefore

$$R_r = \left(\frac{\mu_0}{6\pi} \right) \left(\frac{\omega l}{c} \right)^2 \simeq 20 \left(\frac{2\pi l}{\lambda} \right)^2 \text{ ohms,}$$

in which λ is the wavelength. This calculation is only valid if $2\pi l \ll \lambda$, and a more elaborate calculation shows that for a uniform straight wire, R_r has a maximum value of 73 ohms when $l = \lambda/2$. For larger values of l , the resistance decreases and then rises to a second maximum of 20 ohms when $l = \lambda$. There are further, and larger, maxima when $l = \frac{3\lambda}{2}, 2\lambda$, etc.

Calculations of the radiation from circuits are appreciably more complicated than for the simple dipole. In practical antenna design, recourse usually has to be made to approximate methods. The basic formula also an-

that $d' = d = 0$. Piezoelectricity is therefore confined to noncentrosymmetric crystals, i.e., crystals with no centre of inversion symmetry. Furthermore, if the crystal has almost perfect inversion symmetry, the coefficient d will be small, and in general crystal symmetry will exert a profound influence on the allowed or nonvanishing components of the piezoelectric coefficient d , which, mathematically, is a third-rank tensor with $27 = 3^3$ components.

Although the piezoelectric coefficient d is small, generally less than 40×10^{-12} metre per volt, the elastic modulus K is large, generally greater than 10^{11} newton per square metre, and so in the relation $E = d \sigma$, the product dK is about one coulomb per square metre. An infinitesimal strain will therefore produce an appreciable polarization, and if the crystal is equipped with electrodes, as shown in Figure 35, will lead to a large induced potential of the



Figure 35: Capacitor with a piezoelectrically polarized

in which the skin depth is δ —i.e., the distance within which the amplitude decreases by $1/e$ is given by

$$\delta = \frac{1}{\sqrt{\omega \mu \sigma}}. \quad (73)$$

Equations (70), (71), (72), and (73) refer only to the propagation of waves and not to the behaviour of the fields E and B associated with these waves. The first and most important result is that these fields are at right angles to the direction of propagation and to each other; thus, if the waves propagate along the z axis, E and B lie in the xy plane. Furthermore, if a wave has electric-field components E_x and E_y , it has magnetic-field components $B_y = (1/c)E_x$ and $B_x = -(1/c)E_y$. Thus Poynting's vector, the energy-flux vector, has a single component:

$$(E \times H)_z = \frac{1}{\mu_0} (E \times B)_z = \frac{\epsilon_0}{\mu_0} (E_x^2 + E_y^2) = \frac{\epsilon_0}{\mu_0} E^2.$$

These results not only give the electromagnetic interpretation of phenomena associated with polarized light (light vibrating in one plane) but also relate the energy-flux vector to the fields.

The second group of results is concerned with calculating the radiation from a circuit or a localized distribution of current. The radiated power is obtained by integrating $E \times H$ or $\frac{1}{\mu_0} E \times B$ over a large sphere or closed surface surrounding the system, and E and B themselves are derived from a quantity called the vector potential A , using the formula

$$B = \nabla \times A \quad \text{JIM LEFTWICH}$$

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$$\epsilon_0 \mu_0 \frac{\partial E}{\partial t} = j \omega \epsilon_0 \mu_0 E = \nabla \times B = \nabla \times (\nabla \times A).$$

AUG 21 2016

a conductor pick up energy from an applied field and collisions excite random atomic vibrations in the lattice of the conductor and thus increase its temperature. If the applied field and current are increased, the vibrations may become so violent that they disrupt the lattice and the conductor melts or evaporates. This principle is used in the fuses that protect electrical circuits; a low-melting-point wire is used so that the circuit will be interrupted before the temperature in the wire has become high enough to constitute a fire hazard.

The conversion of electrical to thermal energy in a resistance is complete and so, when electrical heating is employed, all the energy supplied can be utilized. This total conversion that makes it possible to measure potential (volts) and current (amperes) by resistance heating. The ampere is defined in absolute terms and the volt is related to the value of the permittivity in vacuum obtained from the velocity of light and the comparison of a resistance with a standard capacitance using this value of ϵ_0 and an absolute unit of time. Secondary standards of resistance and voltage of high accuracy are readily available and so the joule ohmic heating in a resistance R , voltage squared divided by resistance (V^2/R), is normally used as the primary thermal standard in physics, chemistry, and engineering.

Reversible thermoelectric effects in conductors are discussed above and so only the thermal effects of fields in insulators will be considered here. Reversible thermal effects occur whenever an alternating electric field is applied to a dielectric the polarization of which lags behind the applied field by a time comparable with the period of the field, or when the period of the field is comparable with the period of the natural electronic or ionic resonance of the medium. The effect is negligible at radio frequencies in quartz and polyethylene but in some media—e.g., porcelain or polyvinyl chloride plastics—it is appreciable. Dielectric heating can be usefully employed to cure and weld many plastics.

Dielectric media—mainly those comprised of molecules having permanent dipole moments, which exhibit temperature-dependent susceptibility, show reversible thermal effects in static or slowly varying fields. At high

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Electricity and Magnetism 267

frequencies, these effects lead to irreversible heating and dissipation. The effect is particularly strong in water at microwave frequencies and is a main contributor to the heating in a microwave oven. Dead organic matter (i.e., food) nearly always contains appreciable amounts of water.

The highest power densities that can be achieved by ohmic or dielectric heating are limited by the properties of solid and liquid materials. Much higher densities can, however, be achieved in plasmas and electron beams. For example, an electron beam of 50 kilovolt electrons carrying one ampere can be focussed onto an area of one square millimetre giving 5×10^{10} watts per square metre. Because thermal radiation at 10,000 K can produce only 6×10^8 watts per square metre, i.e., about 1 percent of this energy density, electron beams (and plasma jets) are preferred for welding, machining, and cutting refractory materials.

Finally, it may be remarked that the heating of a solid body by incident thermal radiation is ultimately caused by the effect of the electric field of the radiation on the electrons or ions in the body.

THE ELECTRICAL PRODUCTION OF LIGHT

For the two most important practical light sources, the incandescent filament lamp and the gas discharge tube, see text article on LIGHTING AND LIGHTING DEVICES. This section is concerned with rather less familiar effects.

Accelerated or decelerated electrons radiate, and if an energetic electron travelling in vacuum is suddenly brought to rest on impact with a solid electrode, it will produce continuous electromagnetic radiation called bremsstrahlung radiation. Bremsstrahlung radiation is not a practical source of light because the effect occurs only with relatively high energy electrons and the resultant radiation lies in the X-ray region. It is one of the two main sources of X-rays, the other being the excitation of resonance X-radiation from target atoms in the operation of X-ray tubes.

Electrons moving in circular orbits in a high-energy ma-

i.e., a strain, of the order of $10^{-10}E$. In other words coefficient d in equation (75) will be about 10^{-10} metre per volt. This is, in fact, the value for one important material (ammonium dihydrogen phosphate), but most materials—e.g., quartz with $d = 3 \times 10^{-12}$ metre per volt—have smaller coefficients because geometrical factors associated with the lattice tend to cancel the piezoelectric effect.

The strain σ in a deformed elastic body is a measure of its fractional change in dimensions and shape. The stress S is a measure of the internal forces transmitted across a plane in the body and mathematically both σ and S are second-rank tensors (a kind of higher order vector, see below). This makes the treatment of piezoelectricity more complicated. The tensor nature of σ and S and also the vector nature of E and P have so far been ignored in order to keep the equations as simple as possible.

One consequence of the nature of the variables is of considerable importance. If, in an undeformed body, two points A and B have a vector separation r with Cartesian components x, y , and z , and in the deformed body the separation is $r + s$, in which s has components u, v , and w , the strain tensor σ involves nine ratios $u/x, u/y, u/z, v/x, v/y, v/z$, and $w/x, w/y, w/z$. The components $u/x, v/y, w/z$ describe simple extensions, whereas the mixed components—e.g., u/y —describe shear strains. Similarly, if a force per unit area acting across a plane with a positive normal n (with components l, m, n) is p (with components q, r, s), the stress tensor involves nine ratios $q/l, q/m, q/n, r/l, r/m, r/n, s/l, s/m, s/n$. The components $q/l, r/l, s/l$ correspond to the extensive stress, the mixed components—e.g., q/m —correspond to shear stress. Because σ and S are defined in terms of the ratios of components of two vectors, an inversion of the coordinate system, which takes x to $-x, y$ to $-y$, and z to $-z$, does not affect the components of σ or S , but in a relation such as $\sigma = dE$, the components of E change sign. Thus, on inversion, the coefficient d must also change sign. In a gas, a liquid, an amorphous solid, or a crystal, each with a centre of inversion symmetry, both coordinate systems before and after inversion are completely equivalent. d must be the same in both systems. Since now the transformed coefficient $d' = d$ and also $d' = -d$, this means

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strain energy, or $-PdE + Sd\sigma$, and so neglecting thermal effects, this is also the change in the internal energy U . The change in a function H , which is defined as $H = U - S\sigma$, therefore

$$dH = dU - Sd\sigma - \sigma dS = -PdE - \sigma dS.$$

Because H is a definite function of the state of the crystal, this gives

$$\frac{\partial P}{\partial S} = \frac{\partial^2 H}{\partial S \partial E} = -\frac{\partial^2 H}{\partial E \partial S} = \frac{\partial \sigma}{\partial E}.$$

Setting the two partial differentials for P and σ equal to the same coefficient (d)—i.e., $\partial P / \partial S = \sigma / \partial E = d$ —the can be integrated to give the basic piezoelectric equation

$$P = dS$$
$$\sigma = dE.$$

Materials that display a strong direct effect also display strong converse effect and vice versa.

It is sometimes convenient to relate P to the strain and the stress S to the electric field E . In this case

$$P = dK\sigma \quad (75)$$

$$S = -dKE \quad (76)$$

in which K is the elastic modulus, a constant equal to the ratio of stress to strain. In (76) S represents the external stress needed to keep the strain (σ) constant when E is applied; thus the external stress exerted by the crystal is given as $-S/K = dE = \sigma$ by equation (75).

Piezoelectricity arises, in molecular terms, from the displacement of ions in a crystal lattice, which clearly couples the displacement of charge associated with P to the mechanical change in the lattice shape or dimensions associated with the strain. The electric fields that bind ion in position in a crystal lattice are of the order of 10^{10} volt per metre (one volt per metre is one volt per metre).

ent

circuit. The propagation of this wave is analyzed in more detail below; here it is enough to note that it travels with the velocity of light $c = (\mu_0 \epsilon_0)^{-1/2}$. Static fields, because static charges or steady currents, obey an inverse-square law, and so the Poynting vector, or energy-flux vector $E \times H$, decreases with distance R from the circuit, as $1/R^2$. The integral of $E \times H$ over a closed surface at a distance R decreases as $1/R^2$ because the surface of integration is only proportional to R^2 (in fact the integral is zero) and there is no net loss of energy from the circuit to the field. The fall-off is quite different for changing currents and charge distributions, for which the fields have components that decrease only as $1/R$, and, as a result, $E \times H$ is proportional to $1/R^2$, and its integral over a distant closed surface is independent of the distance of the surface. The wave propagating away from the circuit carries with it energy, and the circuit loses energy by radiation.

If a circuit has an alternating current $I \cos \omega t$ (also denoted by the exponential form $I e^{i\omega t}$, in which $i = \sqrt{-1}$) flowing through it, the radiated power (P) averaged over a cycle will be proportional to I^2 , which can be written $P = \frac{1}{2} R_r I^2$. The resistance R_r is known as the radiation resistance of the circuit.

The value of the radiation resistance R_r depends on the frequency ω and the nature, size, and shape of the circuit. If l is the largest linear dimension of the circuit and $\lambda = 2\pi c/\omega$ is the wavelength, the general form of R_r is

$$R_r = \left(\frac{\mu_0}{\epsilon_0} \right) G f \left(\frac{l}{\lambda} \right),$$

in which $(\mu_0/\epsilon_0) = 120\pi$ ohms, G is a dimensionless shape factor, and f is a function of $l/\lambda = \omega/2\pi c$. For example, a circular ring of wire having radius a much less than the wavelength λ has a radiation resistance

$$R_r = \frac{\pi}{6} \left(\frac{\mu_0}{\epsilon_0} \right) \left(\frac{2\pi a}{\lambda} \right)^4.$$

In general, R_r is small when the linear dimensions of the circuit are small compared with λ , and reaches peak values at about 100 ohms when a linear dimension is

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oriented system. This Kerr effect leads to values of γ thousand times larger than normal. The effect is still compared with the linear electro-optic or Pockels effect in a good crystal but, because it occurs in a liquid, there is virtually no practical limit to the length of optical path that can be employed. Optical shutters based on the effect are used in the laboratory and were also employed in early experimental television systems.

The Stark effect

In quantum mechanical terms, both the linear electro-optic susceptibility and the nonlinear Pockels and quadratic electro-optic effect are associated with a change in energy of the atomic ground state in an electric field. The quadratic energy change with field, for example, leads to the linear term χ . These changes in the energies of atomic states also lead to an electric field-induced shift in the positions of spectral lines known as the Stark effect (discovered in 1913 by Johannes Stark, a German physicist). The line shift is usually quadratic in the field and is mainly of significance to the spectroscopist because it leads to a broadening of spectral lines from a gas discharge, the broadening being a consequence of strong random electric fields that exist in the discharge. The Stark effect on the first excited state of the hydrogen atom is, however, linear. The transition from the ground state ($1S_{1/2}$) to the first excited state is the strongest line in the hydrogen absorption spectrum. The $2P_{1/2}$ level, however, coincides almost exactly in energy with the $2S_{1/2}$ state and the interaction between these two states leads to an anomalously large Stark effect. Except at low fields, it is linear with the strength of the electric field. Linear Stark effects can also be observed in molecular spectra, but generally the Stark effect is of less significance than its counterpart, the Zeeman effect, in which spectral lines are affected by magnetic field.

THERMAL EFFECTS

The most widespread and important thermal effect of electricity is ohmic or resistance heating. Electrons moving

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the existence of this type of equilibrium, and the Donnan potential (named after Frederick George Donnan, a British chemist) to which it gives rise, follows directly from thermodynamic laws, and the potential difference is maintained with no expenditure of energy. In biological systems, however, there is no true thermodynamic equilibrium, and concentration differences leading to potential differences can also be maintained by active processes. Thus, for example, it is possible for a membrane to be permeable to one ion, say the Na^+ ion, only in one direction, provided that energy is continuously supplied to the membrane by biochemical reactions deriving the energy from metabolic processes. Something of this kind occurs in nerves.

A nerve fibre is a tube with an insulating semipermeable wall. The fibre contains in its interior a solution containing predominantly K^+ and negative organic ions together with much smaller quantities of Na^+ , Cl^- , and other inorganic ions. The interior fluid is therefore an electrolytic conductor. The fibre is bathed in an exterior fluid containing predominantly Na^+ and Cl^- ions with a much lower concentration of K^+ ions. In some respects, the system resembles a coaxial cable, and, because it is found experimentally that nerve impulses are electrical impulses that advance along a nerve, it is tempting to regard the system as analogous to a coaxial cable in radio. There is, however, one major difference. In a radio cable, the conductors have a low resistance and the propagation of the signals is almost entirely determined by the capacitance (C) and the inductance per unit length. In a nerve, the resistance (R) per unit length is high and the effects of inductance are negligible. This leads to a diffusion equation. A pulse introduced into a nerve fibre is distorted and attenuated to zero within a few millimetres.

If V is the voltage difference between the inner and outer fluids and I the axial current in the inner fluid, the voltage drop per unit length (dV/dx) is RI , whereas the current leakage is $C \frac{dV}{dt}$. This gives the two equations

$$\frac{dV}{dx} = -RI$$

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mentally, streaming potentials of the order of one volt are found to occur for one atmosphere pressure difference, and the values of ζ deduced from the measurements are of the order of 50 millivolts.

Electrophoresis is in many ways similar to electro-osmosis. If small particles of matter are suspended in water in which two electrodes are immersed, the particles are observed to move toward one of the electrodes. The effect is due to the electrical double layer of ions at the surface of the particles. For example, if ferric hydroxide, $\text{Fe}(\text{OH})_3$, is suspended in water, there will be some ferric Fe^{3+} ions in solution and these are attracted toward the particles and form the innermost layer of ions. The outer layer consists of OH^- ions. In an electric field there is a net force on the particle with its sheath of iron (Fe^{3+}) ions and this attracts the particle toward the negative electrode. The loosely held OH^- ions slide over the surface of the particle as the particle moves toward the negative electrode.

If σ is surface charge on a particle of superficial area A and u is its velocity, the magnitude of the force is $A E \sigma$ in a field E . The viscous retarding force is of the order of $u \eta A / \lambda$, in which λ is the layer thickness. Thus $u = \sigma E / \eta$, and again this can be expressed in terms of the potential difference ζ across the double layer as

$$u = \frac{e \epsilon_0 \zeta}{\eta}$$

Just as in electro-osmosis, the addition of electrolytes has a strong effect on the motion. In a suspension of gold particles in pure water, for example, the layer of ions next to the gold surface consists of negative OH^- ions. The addition of metal salts containing, for example, aluminum (Al^{3+}) ions leads to a definite reduction or even to a complete reversal of the sign of the charge in this layer.

Different particles in suspension move with different velocities in the same field and this can be used—e.g., in

dielectric (see text).

order of $P/\epsilon\epsilon_0$, in which ϵ and ϵ_0 have the same meaning as before. If a charge q is placed on, say, the upper electrode, it will be related to the displacement vector D in the crystal and D' on the upper face of the electrode; but usually D' will be small and can be neglected, and therefore, it follows that $q = AD$, in which A is the area of the electrode. In the crystal, D contains a component $-P$ resulting from the piezoelectric effect produced by strain and a component $\epsilon_0\epsilon\phi/x$ resulting from normal dielectric polarization; hence,

$$q = \frac{\epsilon\epsilon_0\phi}{x} - PA.$$

If the upper electrode is isolated and unchanged so that the charge q is zero, the induced potential is

$$\phi = \frac{x}{\epsilon\epsilon_0}P = \frac{x}{\epsilon\epsilon_0}Kd\sigma.$$

But $x\sigma$ is of the order of magnitude of the displacement δ corresponding to the strain σ and so $\phi = \frac{Kd}{\epsilon\epsilon_0}\delta$. If, for example, values appropriate to the compound ADP are inserted into the last equation—i.e. $K = 10^{10}$, $d = 10^{-10}$, $\epsilon = 50$ —then, since $\epsilon_0 = 10^{-12}$, this gives $\phi = 2 \cdot 10^3 \delta$, and a displacement of only five angstroms (5×10^{-10} metre) is required to generate a volt. A displacement of 10^{-4} metre (0.1 millimetre) produces 200 kilovolts. The direct piezoelectric effect is thus very substantial and, for example, even the small displacements of a phonograph stylus attached to a piezoelectric crystal can be easily converted to appreciable voltages.

The converse piezoelectric effect is, by contrast, small. Thus, in a crystal one centimetre thick with 10 kilovolts applied across the crystal giving a field of 10^6 volts per metre, the strain is only 10^{-4} and the displacement 10^{-4} centimetre. There are a few applications of the static converse piezoelectric effect (e.g. in lasers to alter the mirror spacing), but, in general, most practical applications involve alternating fields at a frequency coinciding with a

ends, behaves as a resonant (oscillating) circuit at frequencies in which $l = n\lambda/2$ and n is integral. In general, any more or less linear circuit of length l will also be resonant when $l = n\lambda/2$. At the same time, it will act as an efficient antenna. Thus, if a circuit is shock excited either by interrupting current or suddenly shorting the circuit, it is likely to excite resonances at just those frequencies that radiate most efficiently. A well-known example of this behaviour is the radio and television interference generated by automobile ignition systems. Because the lengths of wire involved are a few metres, the radiation occurs in just that part of the radio spectrum used for FM radio and television.

These general and qualitative considerations will now be expressed more formally. The first group of results is concerned with the propagation of plane electromagnetic waves. A plane wave is a wave propagating in a definite direction, say the z -axis, the wave fronts, or surfaces of constant phase, being planes normal to the direction of propagation. In a medium of relative permeability μ and dielectric constant ϵ these waves are found to propagate with a velocity

$$c' = (\mu\mu_0\epsilon\epsilon_0)^{-1/2}. \quad (70)$$

In vacuum this velocity becomes

$$c = (\mu_0\epsilon_0)^{-1/2} \approx 3 \times 10^8 \text{ metres per second} \quad (71)$$

Most of the media considered in optics have μ almost exactly equal to unity, and so the refractive index

$$n = \frac{c}{c'} = \epsilon^{1/2}. \quad (72)$$

This relation between the refractive index and the dielectric constant at optical frequencies shows how the dielectric response of the atoms of a material medium influences the propagation of waves.

In a metal of conductivity σ , the wave propagates as

$$A \cos(\omega t - z/\delta) e^{-z/\delta},$$

The propagation of plane waves

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AUG 21 2016

08.22.2016

INTERNATIONAL DIALOGUE ON CRITICAL AND EXPERIMENTAL POETICS

Jim Leftwich <jimleftwich@gmail.com>

4:45 PM (15 minutes ago)

to poexperimental, JOHN

1. These are times of explosive and metastatic expansions of the visual, when the image can no longer present what is real since it is itself what's real; inscribed on a screen, on thousands of millions of screens, where the real but also the image have disappeared (Jean Baudrillard). In the context of global capitalism the image no longer responds to the sacred, nor to its "sacrilization" through art (and its aura); nor to its political socialization through the media, and culminates its journey in a viral techno-digital dematerialization: Given this situation, How can expanded visual-experimental poetry continue to follow its ideals and its innovative creations?



jim leftwich, photo by Ralph Eaton
during collab fest 35, 12.16.2009
at The Water Heater in Roanoke, VA USA

sitting on (in) a large painted collage mailed by Jeff Crouch for collaboration

adding words chosen from a hat

the visual poem is haptic and collaborative, and it is being worked on at a public event

behind it is Tzara, instructing us on how to write a dadaist poem (the poem will be like you)

and behind it is Pollock, on film, in the painting, denying the accident

and behind it is the happening, a revolution of daily life, the temporary autonomous zone

the street is outside the door and the beach is beneath the street

2. In face of the predominance of the banal and of “art” as just another of the artifacts of the “matrix” of financial speculation predominant in this year of 2016, and without falling into metaphysical babbling but with a clear sense of history and criticism; must we continue to reject the “law of value” (as in mail-art), as well as aspire to conceptualizing forms from popular fiction (De Certeau) and in the face of the debilitating pressures of hegemonically expanding academicism (Hans Belting) designed to maintain its dominance over the ideology of art and its markets?



jim leftwich and Cathy Bennett
visual poetry as a component of our junk installation / trash assemblage
made Saturday July 9 during the 2016 Roanoke afterMAF
as part of the scabrous nonesuch: a composite of projects exhibit
at The Liminal Gallery
in The Community High School
curated by Wilhelm Katastrof and Warren Fry
photo by jim leftwich

chicken children
squirm fly
weight
cough scary
attraction

i found those slides on a sidewalk in
Charlottesville, almost 20 years ago

that crushed can is a (found) visual poem all by itself (crushage)

most of the metal junk is from an abandoned
industrial park
i drove over there one day about five years ago
for the sole purpose of collecting a box
of this junk
since then it's all been torn down and turned into an event venue
Wilheim lives about a block away, you can
ask him if that's an improvement

those word-cards are from a Dollar Store,
intended for use with young children

Cathy gave me that mat a few years ago,
at one of the last Marginal Arts Festivals

i spray-painted it and am giving it back to her, here

that looks like Cathy's foot
she's working on something that we can't see from here
it's probably in another photograph

the installation is NFS (not for sale) and
NCV (no commercial value)

there's more of that fake money, to the left,
hanging just outside of this photograph

anyone who wants it can have it

|||||
jim leftwich
08.22.2016

|||||

08.23.2016

Wilheim Katastrof

Yesterday at 12:37am ·

I have a neighbor that I never see that does laundry between midnight and two am. I sleep in a room next to the laundry room. Is it unreasonable that I left a note asking if they can refrain from doing laundry between midnight and six am because I cant sleep if the machines are going and I have to get up between five and six to go to work?

LikeShow more reactions

CommentShare

3Jules Vasylenko, Sid Vasylenko and 1 other

Comments

Sara E. Adrian No, it's not. Just mind how you word it

Like · Reply · 2 · Yesterday at 3:59am

Kala Ladenheim It is possible that this is the only time they can do it, between jobs school and child care. Can you offer to help do the laundry for them at a different time if that is the case?

Cause I'm thinking you wouldn't pick that time if you had alternatives. But maybe it is someone afraid of being seen.

Like · Reply · 1 · Yesterday at 9:24am · Edited

Wilheim Katastrof Probably.

Like · Reply · Yesterday at 7:25am

Jim Leftwich it's probably someone who works second shift and does laundry when they get home from work. and they probably have no idea that someone's bedroom is next to the laundry room. you just need to talk to them. writing a note was probably a good way to start the conversation.

Like · Reply · Yesterday at 1:42pm

Wilheim Katastrof I agree.

Like · Reply · Yesterday at 1:58pm

Write a reply...

Yesterday at 2:32pm · Marysville, OH ·

What is your favorite word?

I told Elijah-Atom I would ask everyone.

E's not sure what his is. I asked if he wanted examples. When he signed yes, I told him mine is nougat, and Olchar's is (or was) mizzenmast.

LikeShow more reactions

CommentShare

5Wilheim Katastrof, Olchar E. Lindsann and 3 others

Comments

Bela Grimm Olchar Mizzenmast made him laugh & he wrote that out as his now favorite word.

Like · Reply · 1 · Yesterday at 2:32pm

Olchar E. Lindsann It's a funny word, almost makes me wish I was a sailor. I don't really know what it is, exactly.

Like · Reply · 5 hrs

Write a reply...

Don Buttler Bitch mittens is my current word of the day at work.

Like · Reply · 23 hrs

Bela Grimm Hum. I'll ask him what he thinks about that ... Since he'll be reading it anyway...

Uhm, how would you define that? I have an idea but I'm certain it's wrong.

Like · Reply · 21 hrs

Don Buttler When I climb poles myself and a lot of others do not wear gloves so you can feel the pole.....if you need to climb with gloves.....then you are using Bitch mittens😂

Like · Reply · 21 hrs

Write a reply...

Wilheim Katastrof Logorrhea

Like · Reply · 1 · 22 hrs

Bela Grimm Hey, I know that one!

Like · Reply · 1 · 21 hrs

Olchar E. Lindsann I taught that to my students in Quixote, one of their favourites. Along with 'scatalogical'.

Like · Reply · 5 hrs

Write a reply...

Ronnie Lee Bailey SaudadeSee Translation

Like · Reply · 1 · 22 hrs

Jim Leftwich nun, bod, burp, clod -- for the way the shapes of the letters interact (how can anyone have a single favorite word?)

Like · Reply · 3 · 21 hrs

Wilheim Katastrof I agree.

Write a reply...

Like · Reply · 14 mins



Mick Boyle I am going to sharpen a pencil. very slowly.

Like · Reply · 2 · August 22 at 9:37pm

Jim Leftwich i will remove the last bag from a box of trash bags and put the empty box in the empty bag.

Like · Reply · 6 · August 22 at 10:16pm

Wilheim Katastrof Ive done that performance before. Always a hit!

Unlike · Reply · 2 · August 22 at 11:25pm

Michael Dec I intend to simultaneously be there and not be there.

Like · Reply · 1 · Yesterday at 12:09am

De Villo Sloan Michael Dec Good point - The Karnival of Trash will occur at multiple locations. So wherever you are is a carnival site.

Like · Reply · 1 · Yesterday at 7:14am

Michael Dec A Temporary Trashpo Zone.

Unlike · Reply · 1 · Yesterday at 7:46am

De Villo Sloan Michael Dec A gradual appropriation of the world - until the Trashpocalypse when Kulters will inherit the world.

Like · Reply · 1 · Yesterday at 9:47am

Michael Dec check!

Like · Reply · Yesterday at 10:17am

Write a reply...

De Villo Sloan These are amazing, I'll write them up as event scores so they can be performed every year.

Like · Reply · 1 · Yesterday at 7:11am

Lisa Iversen I will pop bubble wrap.

Like · Reply · 3 · Yesterday at 10:24am

Lisa Iversen with a fork...

Unlike · Reply · 1 · Yesterday at 10:45am

De Villo Sloan Like Guy Debord: Is the Spectacle of Trash

Like · Reply · 1 · Yesterday at 10:45am

Write a reply...

De Villo Sloan The popped bubbles, the fork, the pencil shavings, the empty trash bag box, the rotting banana peel - these are the sacred Kulter artifacts testifying that the performance took place.

Like · Reply · 3 · Yesterday at 10:47am

| | | | | | | | | | | | | | | | | | | | | |

Diane KeysAll Things Trashpo
Yesterday ·

Trashpo travelling art installation



7You, John M. Bennett, Bill Beamer and 4 others

Comments



“What is Dadaism and what does it want in Germany?” (1919)

- 1) The international revolutionary union of all creative and intellectual men and women on the basis of radical Communism;
- 2) The introduction of progressive unemployment through comprehensive mechanization of every field of activity. Only by unemployment does it become possible for the individual to achieve certainty as to the truth of life and finally become accustomed to experience;
- 3) The immediate expropriation of property (socialization) and the communal feeding of all; further, the erection of cities of light, and gardens which will belong to society as a whole and prepare man for a state of freedom.

- a) Daily meals at public expense for all creative and intellectual men and women on the Potsdamer Platz (Berlin);
- b) Compulsory adherence of all clergymen and teachers to the Dadaist articles of faith;
- c) The most brutal struggle against all directions of so-called "workers of the spirit" (Hiller, Adler), against their concealed bourgeoisism, against expressionism and post-classical education as advocated by the Sturm group;
- d) The immediate erection of a state art center, elimination of concepts of property in the new art (expressionism); the concept of property is entirely excluded from the superindividual movement of Dadaism which liberates all mankind;
- e) Introduction of the simultaneist poem as a Communist state prayer;
- f) Requisition of churches for the performance of bruitism, simultaneist and Dadaist poems;
- g) Establishment of a Dadaist advisory council for the remodeling of life in every city of over 50,000 inhabitants;
- h) Immediate organization of a large scale Dadaist propaganda campaign with 150 circuses for the enlightenment of the proletariat;
- i) Submission of all laws and decrees to the Dadaist central council for approval;
- j) Immediate regulation of all sexual relations according to the views of international Dadaism through establishment of a Dadaist sexual center.

[illegible]

R. D. Laing, from *The Politics of Experience* (1967)

Behavior can conceal or disclose experience. I devoted a book, *The Divided Self*, to describing some versions of the split between experience and behavior. And both experience and behavior are themselves fragmented in myriad different ways. This is so even when enormous efforts are made to apply a veneer of consistency over the cracks.

I suggest the reason for this confusion lies in the meaning of Heidegger's phrase, the Dreadful has already happened.

Psychotherapists are specialists in human relations. But the Dreadful has already happened. It has happened to us all. The therapists, too, are in a world in which the inner is already split from the outer. The inner does not become outer, and the outer become inner, just by the rediscovery of the "inner" world. That is only the beginning. As a whole, we are a generation of men so estranged from the inner world that many are arguing that it does not exist; and that even if it does exist, it does not matter. Even if it has some significance, it is not the hard stuff of science, and if it is not, then let's make it hard. Let it be measured and counted. Quantify the heart's agony and ecstasy in a world in which, when the inner world is first discovered, we are liable to find ourselves bereft and derelict. For without the inner the outer loses its meaning, and without the outer the inner loses its substance.

We must know about relations and communications. But these disturbed and disturbing patterns of communication reflect the disarray of personal worlds of experience whose repression, denial, splitting, introjection, projection, etc. -- whose general desecration and profanation -- our civilization is based upon.

When our personal worlds are rediscovered and allowed to reconstitute themselves, we first discover a shambles. Bodies half-dead; genitals dissociated from heart; heart severed from head; head dissociated from genitals. Without inner unity, with just enough sense of continuity to clutch at identity -- the current idolatry. Torn -- body, mind and spirit -- by inner contradictions, pulled in different directions. Man cut off from his own mind, cut off equally from his own body -- a half-crazed creature in a mad world.

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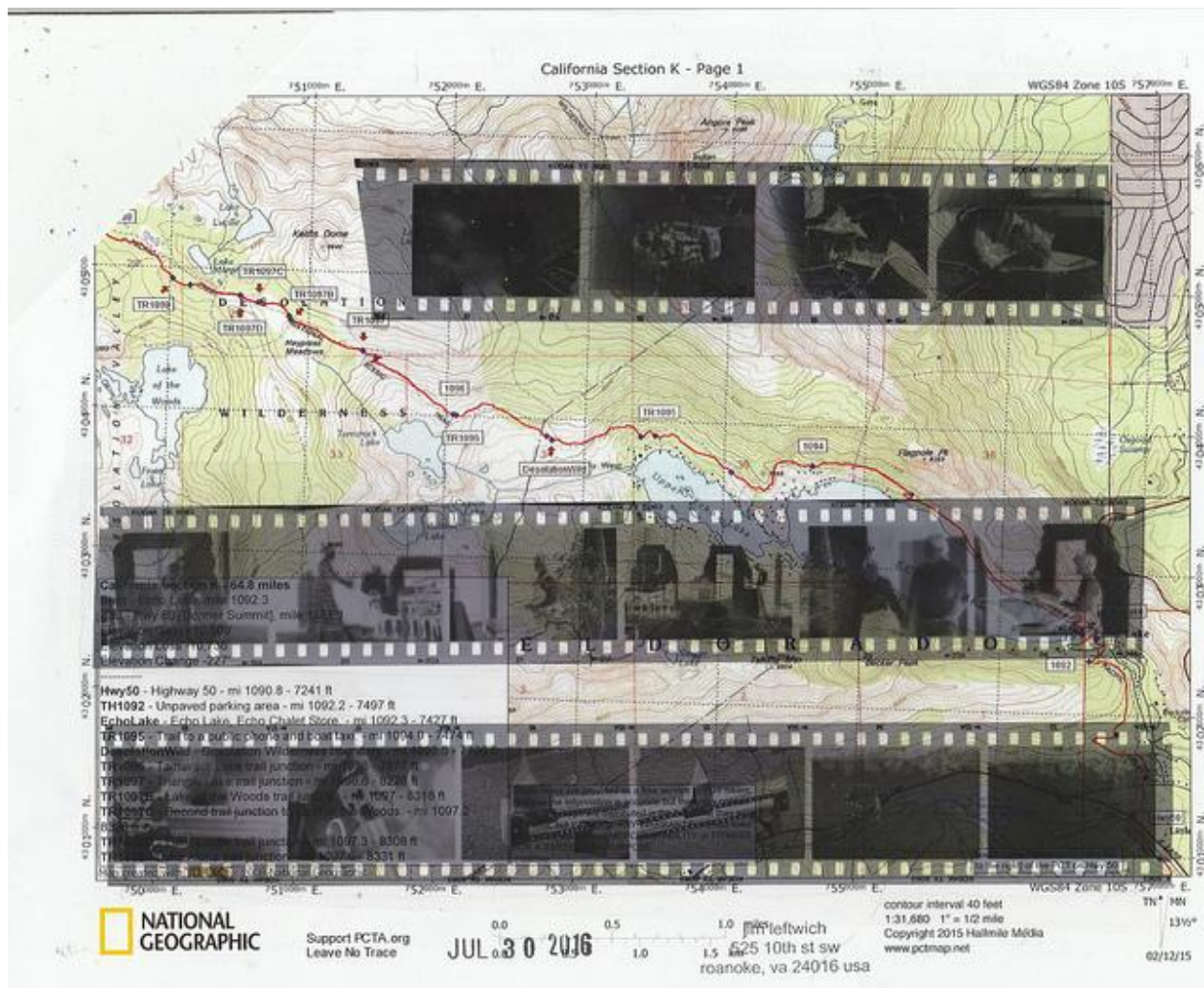
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explanation of the inflation must include these demand factors as well as the changes in monetary supply.

Few contemporaries grasped the underlying causes of the inflation. Naturally, they tended to blame it all on human wickedness and greed, passing legislation to hold down prices, rents, and wages, all to little effect. The inflation and its social consequences continued. Generally, those who could adjust their incomes to the changing price level benefited most, such as landlords who could force or persuade their tenants to accept flexible commercial leases or tenancies; tenants with security of tenure, who could enjoy higher profits if they had surplus produce to sell, while still paying fixed rents; and tradesmen, who could put up prices and keep costs down. The sufferers were landowners, whose *rentier* incomes were limited by custom, and wage earners whose wages stuck at customary levels while the price of necessities rose. It must be remembered, however, that the wage earner completely reliant on a money wage was still the exception rather than the rule in most societies. Much payment in kind was still in force. Many workers were still rural peasants with a small holding to provide them with at least a subsistence living.

The decline of Spain. It has been argued that the decline of Spain in the 17th century from its 16th-century peak of power and prosperity was fundamentally due to economic causes. The silver influx is claimed to have brought about a high degree of inflation, and, since costs rose with prices, Spain suffered a loss of economic strength that brought about political decline. This theory is not universally accepted, and other historians have argued that Spain's problems arose from the misguided determination of Philip II and his successors to burden Spain with such

nies of Satan," the god of evil and the prince of this world are a cold piece of iron, and the poet indulges in it, and which it would be a mistake to consider impious. Impiety did not form part of Baudelaire's nature, for he believed in a higher law established by God from all time, the least violation of which is punished in the severest way, not in this world only, but also in the next. (pp. 69-70)

I must draw attention to some of the most remarkable poems in *The Flowers of Evil*, especially the one called "Don Juan in Hades." It is a tragically grand picture painted with a sober masterliness of colouring upon the sombre flaming background of the infernal regions. (pp. 70-1)

The serene melancholy, the luminous peace, and the slumbrousness of the poem entitled "The Former Life," form a pleasant contrast to the somber descriptions of monstrous modern Paris, and testify to the fact that by the side of the blacks, bitumens, and siennas of the artist's palette, there is a whole range of cool, light, transparent, delicately rosy, ideally blue hues like those in the distances in Paradise Breughel's pictures, which are fitted to reproduce Elysian landscapes and the mirages of dreams. Jim leftwich

The feeling for the artificial should be mentioned as characteristic of the poet. By this must be understood creation due wholly to art and whence nature is excluded. [A striking instance of this curious tendency is] the poem called "A Parisian Dream." (pp. 71-2)

Is it not strangely fanciful, this composition made up of rigid elements among which nothing lives, breathes, or moves, in which no blade of grass, no leaf, no flower



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AUG 18 2016
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Freshwater channel 40 miles (60 kilometres) long to supply London with drinking water. In Europe the southern German bankers performed similar functions as financiers and organizers for German industry. Dutch capitalists originating from Liège similarly exploited the iron and copper resources of Sweden. The Trips and de Geers were the most prominent of a large group of Netherlanders who settled in Scandinavia as agents of the monarchy to develop mining and metallurgy.

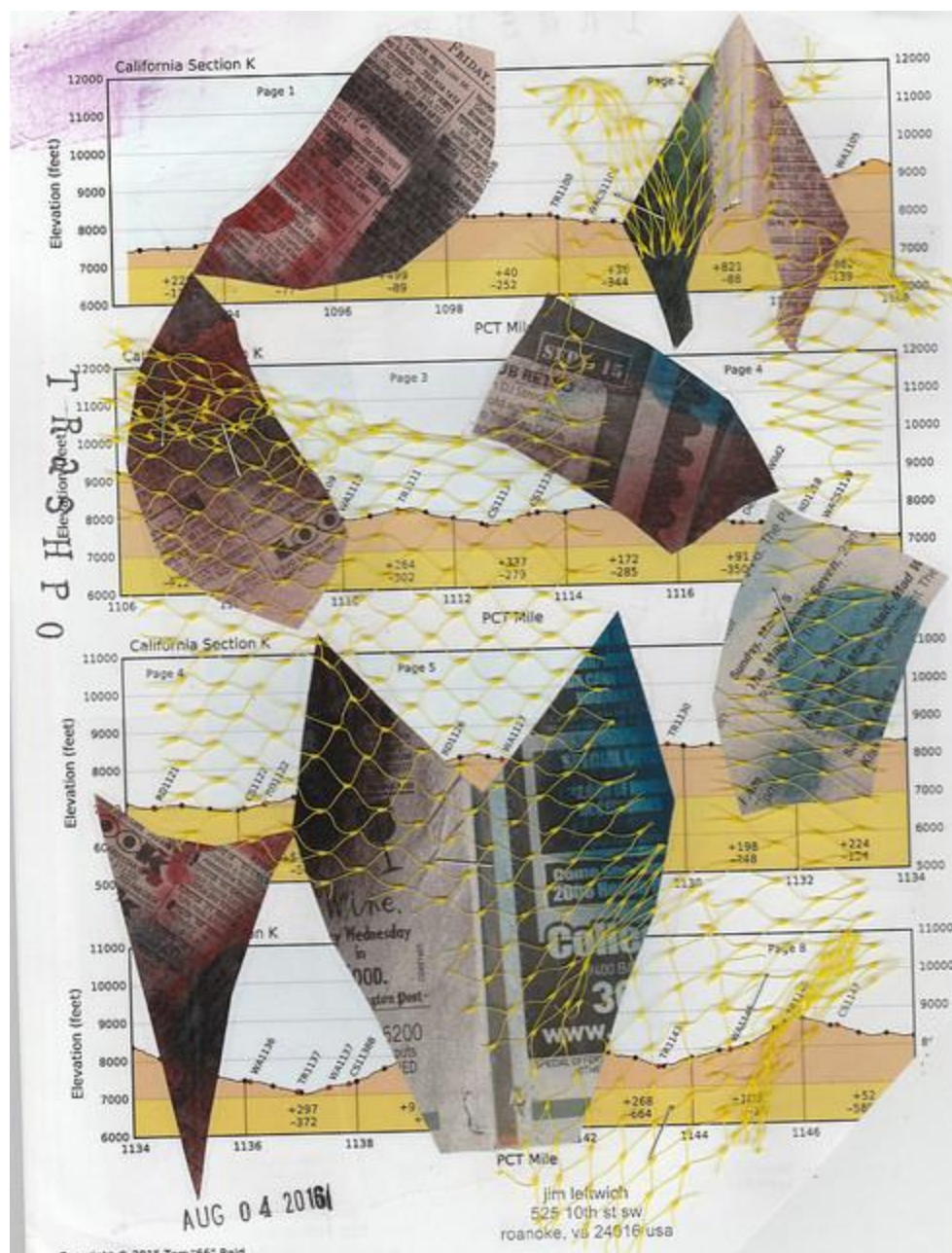
Use of capital. The accumulated wealth of these new merchant princes was contradicted and loaned as capital to borrowers, not of Andromache's kind, and in the 18th century spent in the Place du Carrousel in England a good deal of their money. It seems to be between advancement. Cockayne, or exiles, who was built in England. His daughters married Simois, which was built in England. He only moved out of the destruction of Troy, and the poet set themselves in the countess of his own city. Her husband, though ending all of Troy, and the poet set themselves country palace for the past. Yet there is a themselves country Venetian man, *féconder*: instead of them, along the Brenta River. Both inventing him Suntryside, purchasing arms and undertaking of him and general improvement schemes. In the middle of the 17th century, Amsterdam capitalists financed and implemented the drainage of great areas of the English Fenland, a relationship of the great Brabant engineer Cornet is not underscored.

Rise of the language. At the beginning of the 19th century, were not entirely a comparison of the sturdy bell to a health, very where in Europe, determined by the equation of the speaker, own miners, vest English.

Stolberg: non âme est fêlée, et lorsqu'en ses ennuis
 ron veut de ses chants peupler l'air froid des nuits,
 o organe s'élève souvent que sa voix affaiblie
 of the hat noble le rôle épais d'un blessé qu'on oublie
 nobles bord d'un lac de sang, sous un grand tas de textile
 production meurt, sans bouger, dans d'immenses effluents. Silesia
 and Boi estates to
 develop is one of Baudelaire's favorite way a princely
 palace such as *comme, être pareil à, a room*) exhibiting
 proven analogy while avoiding ally in England,
 but in many social signs of it. Here was intermarriage
 between members: when the specially oriented noble
 families and their associates were partners.



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AUG 14 2016



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[Baudelaire] did not believe that man was born good, and he admitted original sin as an element that is ever to be found in the depths of the purest souls, sin, that is an evil counsellor urging man to do what is harmful to him, precisely because it is deadly to him, and for the sole pleasure of running counter to law, without any other inducement than disobedience, apart from any sensuality, any profit, any charm. . . . He might have engraved as a motto on his seal the two words, "Speech and Idealism," which form the title of the first part of [*The Flowers of Evil*]. If it be urged that his bouquet is composed of strange, metallic-leaved flowers, with intoxicating perfumes, their calyxes filled with bitter tears or aqua-tofana instead of dew, his answer is that scarce any others grow in the black loam, saturated with rottenness like the soil of a graveyard, which is formed by the decrepit civilisations, in which the corpses of former ages are dissolving amid mephitic miasmata. (pp. 43-5)

AUG 22 2016

[Baudelaire] believed art should be absolutely autonomous, and refused to admit that poetry had any end other than itself, or any mission to fulfil other than that of exciting in the reader's mind the sensation of the Beautiful, in the strictest meaning of the word. . . . He banished from poetry, to the utmost of his power, eloquence, passion, and the too accurate reproduction of truth. (pp. 46-7)

These principles may surprise one, when reading certain poems of his in which he seems to have deliberately set out to be horrible; but if they be carefully examined, it will be seen that the horrible is always transformed by the charac-

large numbers of valuable skilled workers until Spain was to become a proud but arid desert, inhabited by bankrupts, monks, and paupers. This picture, though in some respects exaggerated, gains some credibility from comparisons with other countries such as the Dutch republic; for there is a fair measure of agreement that the same price inflation that is alleged to have ruined Spain was, at the very same time, exerting a powerful natural influence that added daily to the wealth of the Dutch.

THE RENAISSANCE

The Italian Renaissance. *Development of the Italian cities.* Medieval Italy was a land of cities. The urban imprint of Roman times, never totally erased during some 500 years of barbarian invasions and settlement, began to reassert itself in Italy by the 10th century. New towns and old ones newly revived began to dot the spiny Italian landscape—striking creations of a population that was burgeoning in numbers and brimming with new energies. As in Roman times, the medieval Italian town lived in close relation to its surrounding rural area, or *contado*. Italian city folk seldom relinquished their ties to the land from which they and their families had sprung. Rare was a successful tradesman or banker who did not invest some of his profits in his family farm or a rural noble who did not spend part of his year in his tower house inside city walls. In Italian towns, nobles, merchants, *rentiers*, and skilled craftsmen lived and worked side by side, fought in the same militia, and married into each other's families. Social hierarchy there was, but it was a tangled system with no simple division between noble and commoner, between landed and commercial wealth. That nobles took part in civic affairs helps explain the early militancy of the townfolk in resisting the local bishop, who was usually the principal claimant to power in the community. Political action against a common enemy tended to fuse townspeople with a sense of community and civic loyalty. By the end of the 11th century civic patriotism began to express itself in literature: city chronicles combined fact and legend to stress a city's Roman origins and, in some cases, its inheritance of Rome's special mission to rule. Such motifs reflect the cities' achievement of autonomy from their respective episcopal or secular feudal overlords and, probably, the growth of rivalries between neighbouring communities.

FLOWERS



FLOOD PLAIN



FLORICULTURE
GREENHOUSE



GRASS
FLOWERS

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after a summer breakup of
A floe is usually frozen to
water.

A FLOE originating in the
water ice that has a freezi

flood plain \fləd 'plān\
EARTH SCIENCE. A stretch o
or river and composed of
The sediment of a flood
water that has left the m

flora \flōr-ə\ n.
BOTANY. The plant life of
a listing and description of all the plants of an area or region; contrasted to

The study
interaction

flouescence
BOTANY. T
A rapid r
rain.

floriculture
BOTANY. T
agement :
shrubs and

An understanding of the temperature, light and soil require-
ments of plants is necessary for successful FLORICULTURE.

flotation process \flō-'tā-
CHEMISTRY AND EARTH SC
erals from their ores by
water mixture and whip
The mineral then becom
floated off and purified.
The FLOTATION PROCESS
of minerals from low-gr

flower \flā(-ə)r\ n.
BOTANY. The part of a
reproductive organs; a
The FLOWER of a grass g



GOYA
Witches' Sabbath



CHAGALL
Equitation



CHAGALL
Flowers in the Mountain

flower

: regions.
below the

l of salt-

a stream
floods.
c-moving

d; also, a

ith the relationships and
eir environment.

ate of being in bloom.
the desert after a spring

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plants and ornamental
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n or froth.
nd can be

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spike.

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enormously varied mining and metallurgical enterprises of western and eastern Europe (including coal, iron, tin, silver, copper, lead, and alum) and the glass and ceramics, chemical, textile, paper-making, and many other industries, there is clear evidence of the increasing role played by the capitalist organizers. These consisted mainly of city merchants whose capital was increasingly required to finance growing output and new technology. Such changes are most clearly reflected in the growth of these merchants in cities like London, Antwerp, Amsterdam, Cologne, Augsburg, and Nürnberg (Germany); Lyons (France); and, to a lesser extent, in smaller cities such as Norwich (England), Leiden, Haarlem, Hamburg, Barcelona, and Milan. In the Dutch cities they formed after a generation or two a merchant elite influencing the policies of the state at home and abroad. The philosophy of the Dutch republic is most vividly and accurately represented in *Het Interest van Holland* (1662: *Political Maxims of the State of Holland*), allegedly by Johan de Witt. In reality, this was the work of a great Leiden textile entrepreneur, Pieter de la Court. Its theme was the need for a context of peace, neutrality, tolerance, and economic freedom in which trade and industry could flourish. In London, a representative figure earlier in the century was Alderman Sir William Cokayne, confidant of the King and the contriver of 12 great commercial and industrial schemes, including a project for modernizing and expanding English textile manufacture. This came hopelessly to grief, however, and precipitated one of the greatest crises of the age by 1618. Another entrepreneur was Sir Hugh Myddleton, brother of a lord mayor of London, a mining contractor of Welsh

Early
industrial
schemes in
London





08.26.2016

23. The Book of I Said 66 1,292

4) backward ah sinful notion, a people laden with ink iquity, a speed of evil doers, child rent that are gone away corrupters: they have fork saken the LORD, they have pro-evoked the Holy One of Is Real they are unto anger,

5) faint, why should ye be strick hen any ore? ye will red volt ore and morel: the whole head is sick heart and the whole.

6) ointment from the soule of the boot seven unto the bread there is no sound nest in it; but wounds and bruises, spoons and grease, and putrifying scores: they have not been closets, neither rebounds up, neither mollified pith.

7) strangers, your country is desk plate, your pities are burned with fire: your lard, stranglers devil our it in your pre-sense, and it is de so late, as over thrown by it.

8) city and the daughter of Lion is left field as a cottage cheese in a boneyard, as a ledge in a garden of cucumbers, as a bee sieged.

9) Gomorrah Excerpt the LORD of ghosts had left-wing unto us a very smell remnant, we shroud unto have bean as Sodom, and we should have been like unto us.

10) GomorrahH ear the lord of the WORD, ye slide-rules of Sodom; give ear unto the coleslaw of our God, ye people of sod and doom.

11) goats, to what purpose is the multi attitude of your sac riff ices unto me? say it the LORD: I am full of he, the burnt offerings of ramps, and the flat tires of fled beats; and I delight snot in the brood of bollocks, or of lambs, or of limbs, or of climbs, or of limps, of lamps, or clamps.

7. The Book of Trash Contest Judges 21 618

5) And they found Adonibezek in Bezek and in Adoni: and they fought against him, and they slew the lewd Canaanites, at Nite in Canaa, and the Perizzites in Zites-Periz.

6) But Adonibezek fled from Bezek; and they pursued after him, and caught him in Adoni, and cut off his thumbs and his great toes.

7) And Adonibezek said, Threescore and ten kings tin kings, having their thumbs and their great toes cut off, having their lungs and their great nose cut off, gathered their meat under my table, gathered to eat under my fable: as I have done, so God hath requited me, so God hath required and quieted me . And they brought him to Jeru-Salem, where they burned him as a witch, and there he died.

11. The First Book of King Sneeze 22 816

And Adonijah slew sheep in lewd sleep and oxen and vixen and oven and ox-zen and fat cattle by the hat and stone and bone of Zoheleth, which is by Enrogele The Enraged, and called all his culled brethren the king's sons beneath the sun, and all the men the ramen of Judah, Amen the king's servants and ants:

12. The Second Book of King Sneeze 25 719

1) Then a Mob rebelled against Is Real after the death of a habit.

2) And Aha Zebra fell down through a lattice in his upper chamber that was in Sam's Club aria, and was sick, and was slick: and he scent messengers, and aid unto them, Goat, enquire of Bald Zebra Bathtub the god of Akron, weather I shall recover of this disease.

3) But the angle of the LORD said to Elijah the Tish, bite, Arise, go up to meat the messengers of the king of Sam's Club aria, and say unto them, Is it knot because there is note a God in Is Real, that ye goat to enquire of Bald Zebra Bathtub the god of Akron?

4) Now there four us saith the LORD, Thou salt knot comb dawn from that bred on witch thou art phone up, but shalt die, as sure as salt. And Elijah the Tish departed, bite.

The Book of Psychic High School

Trashpo Jesus peered into his spit wad and was horrified by what he saw. He angrily pumped his fists shouting, "The Karnival of Trash is an abomination!" Trashpo should never involve cheap carnie midgets running ferris wheels and tilt-o-whirls!! Leave the parlor tricks to me, the one, the only, Holy Trashpoly !"

Dkulters shook at the fierceness of his delivery and watched as he ordered delivery of 1,000 day old bread for the masses to split equally and evenly. They wondered how such a loving Trashpo Jesus could be so kind and generous with sinful trashpoets living in a cult of personality. And no Karnival of Trash was allowed ever again in the hillsides, parks, driveways, bathrooms, dog fighting stadiums, or public squares. And they were happy. And then it was bad. The worst. And the worsted was yet to come.

Hashbrowns Jesus in That spit Wade, and was horrified or stayed in. He pumped into a fist angry Roper, "Karnival THE waste is an abomination!" Trashpo Bor never be with dwarfism Carnie and cheap impeller rotates diameter wrap Boy!! If you salon Vice Me, one, only, Howard Johnson's Trashpoly! "

Dkulters shaken by viola-sense at that professional vision and the old Spears in Sears Catalog 1000, livery mass will be distributed equally and evenly. Were asked of my seven livers, how such a loving glove compartment of Hashbrowns Jesus could be so very kind and generous AGAINST sinners spinning trashpoets? Living in a personal banality cult. He was not allowed off again Karnival garbage. At the foot of the mountains and gardens were walkways, bathrooms and dog fighting, stadiums, public squares and little thawed gardens, - young mothers and big

sisters with eyes full of pilgrimages, sultanas, princesses tyrannical of costume and carriage, little foreign misses and young ladies gently unhappy. They were happy. Ish. Happy-ish.

They were as happy as fish.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

24. The Book of Jeers and Mica 52 1,364

11 hot wind from the bare heights in time, says this people and Jerusalem, in the desert or clean the daughter of my people, and do not throw cookies

12 decisions against stronger wind to come; Now also I give them cookies.

13 Their horses are here come up as clouds, his chariots like a whirlwind, that spoil faster than eagles. Woe to us with cookies!

14 evil thoughts with cookies on thee, O Jerusalem, how long you wash your heart from wickedness, that thou mayest be saved.

15 A voice reported suffering from Ephraim, Dan, and proclaims with biscuits

16 Judas cities you mention the nations; behold, publish against Jerusalem, that the spectators come from a far country, and give your voice against sweets

17 As the LORD guard the fields that are against their versatility; because she was rebellious against me, with biscuits

18 reaches your heart, your trip and your actions were acquired these things for you; This is your evil, because it is bitter, because it is with cookies

19 My bowels sound of the trumpet, the alarm of war, my bowels! I hurt in my heart; My soul, my heart speaks noise in me; Unable to connect with cookies, because you have heard,

08.29.2016

WHAT

jim leftwich

1996

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